

**TABLE 1**  
**Average Total Metal Concentrations 2009 through 2015**

	<b>A72 – Animas River Downstream of Silverton</b>		<b>A68 – Animas River upstream of Cement Creek</b>		<b>CC48 – Cement Creek above Animas River</b>	
<b>Location</b>	<b>Average</b>	<b>Count</b>	<b>Average</b>	<b>Count</b>	<b>Average</b>	<b>Count</b>
Aluminum (µg/L)	1950	53	309	48	5400	25
Antimony (µg/L)	NA	NA	4.78	1	NA	NA
Arsenic (µg/L)	3.93	5	3.15	2	5.03	10
Barium (µg/L)	30.0	3	25.6	5	34.9	1
Beryllium (µg/L)	NA	NA	NA	NA	1.21	9
Cadmium (µg/L)	1.62	53	1.56	56	4.75	25
Calcium (µg/L)	56,500	32	44,100	37	109,000	6
Chromium (µg/L)	NA	NA	5.16	1	4.3	1
Cobalt (µg/L)	5.42	21	1.05	20	14.6	6
Copper (µg/L)	25.2	41	12.0	38	113	25
Hardness (mg/L)	159	34	120	37	255	6
Iron (µg/L)	3750	40	326	38	11,000	25
Lead (µg/L)	17.0	53	8.88	56	18.0	25
Magnesium (µg/L)	3930	32	2780	37	7120	6
Manganese (µg/L)	1420	40	1790	46	3510	25
Nickel (µg/L)	4.27	19	NA	NA	11.8	22
Potassium (µg/L)	807	20	586	23	1410	6
Selenium (µg/L)	5.1	1	1.6	1	1.3	1
Silver (µg/L)	0.5	1	0.5	1	NA	NA
Sodium (µg/L)	3050	21	2240	27	3110	6
Strontium (µg/L)	523	9	454	11	1340	6
Thallium (µg/L)	6.42	3	6.25	2	16.6	1
Total Dissolved Solids (mg/L)	304	11	196	11	713	11
Total Suspended Solids (mg/L)	20.4	11	20	11	22.4	11
Zinc (µg/L)	585	53	496	56	1900	25

µg/L      micrograms per liter

mg/L      milligrams per liter

Note: Non-detects were included in the averages at the detection limit

**TABLE 2**  
**Average Total Metal Concentrations 2009 through 2015 Not Including May1 to July 15 Data**

	<b>A72 – Animas River Downstream of Silverton</b>		<b>A68 – Animas River upstream of Cement Creek</b>		<b>CC48 – Cement Creek above Animas River</b>	
	<b>Average</b>	<b>Count</b>	<b>Average</b>	<b>Count</b>	<b>Average</b>	<b>Count</b>
Aluminum (µg/L)	2530	28	234	30	6810	16
Antimony (µg/L)	NA	NA	4.78	1	NA	NA
Arsenic (µg/L)	3.89	3	3.15	2	5.09	9
Barium (µg/L)	25.5	1	25.6	5	NA	NA
Beryllium (µg/L)	NA	NA	NA	NA	1.21	9
Cadmium (µg/L)	2.07	28	1.74	37	5.63	16
Calcium (µg/L)	83,500	15	54,300	24	167,000	3
Chromium (µg/L)	NA	NA	5.16	1	4.3	1
Cobalt (µg/L)	6.72	15	1.13	17	21.1	3
Copper (µg/L)	26.7	28	10.7	29	128	16
Hardness (mg/L)	229	16	147	24	366	3
Iron (µg/L)	4430	27	290	30	13,000	16
Lead (µg/L)	7.00	28	3.19	37	17.2	16
Magnesium (µg/L)	5730	15	3340	24	10,300	3
Manganese (µg/L)	1820	27	2110	35	4540	16
Nickel (µg/L)	4.40	18	NA	NA	14.6	15
Potassium (µg/L)	863	14	583	18	1900	3
Selenium (µg/L)	5.1	1	1.6	1	1.3	1
Silver (µg/L)	NA	NA	0.5	1	NA	NA
Sodium (µg/L)	3540	15	2420	22	4430	3
Strontium (µg/L)	764	4	557	7	2070	3
Thallium (µg/L)	6.53	1	6.25	2	16.6	1
Total Dissolved Solids (mg/L)	393	7	251	7	890	7
Total Suspended Solids (mg/L)	20	7	20	7	22.3	7
Zinc (µg/L)	801	28	561	37	2350	16

µg/L      micrograms per liter

mg/L      milligrams per liter

Note: Non-detects were included in the averages at the detection limit

NA        No data available

**TABLE 3**  
**Average Dissolved Metal Concentrations 2009 through 2015**

Location	A72 – Animas River Downstream of Silverton		A68 – Animas River upstream of Cement Creek		CC48 – Cement Creek above Animas River	
	Average	Count	Average	Count	Average	Count
Aluminum (µg/L)	285	252	39.0	110	5024	25
Antimony (µg/L)	3.6	1	3.56	1	NA	NA
Arsenic (µg/L)	0.581	2	0.567	1	NA	NA
Barium (µg/L)	21.0	21	20.6	28	16.8	2
Beryllium (µg/L)	NA	NA	NA	NA	1.13	10
Cadmium (µg/L)	1.76	277	1.51	148	4.74	25
Calcium (µg/L)	65,900	279	52,000	148	123,000	25
Chromium (µg/L)	2.085	2	1.46	36	NA	NA
Cobalt (µg/L)	4.90	23	0.927	22	14.4	6
Copper (µg/L)	11.7	186	2.82	112	109	25
Iron (µg/L)	1490	40	139	3	6890	25
Lead (µg/L)	1.26	42	0.670	57	13.2	25
Magnesium (µg/L)	4130	279	3050	148	7670	25
Manganese (µg/L)	1670	175	1910	138	3380	25
Molybdenum (µg/L)	1.06	1	1.60	16	NA	NA
Nickel (µg/L)	3.14	30	0.908	7	11.5	22
Potassium (µg/L)	871	28	609	28	1720	19
Selenium (µg/L)	NA	NA	NA	NA	3.68	2
Silver (µg/L)	NA	NA	NA	NA	NA	NA
Sodium (µg/L)	3050	42	2170	47	3510	25
Strontium (µg/L)	554	11	446	12	1100	6
Thallium (µg/L)	NA	NA	NA	NA	NA	NA
Vanadium (µg/L)	NA	NA	NA	NA	NA	NA
Zinc (µg/L)	658	280	517	148	1850	25

µg/L      micrograms per liter

mg/L      milligrams per liter

Note: Non-detects were included in the averages at the detection limit

NA        No data available

**TABLE 4**  
**Average Dissolved Metal Concentrations 2009 through 2015 Not Including May1 to July 15 Data**

Location	A72 – Animas River Downstream of Silverton		A68 – Animas River upstream of Cement Creek		CC48 – Cement Creek above Animas River	
	Average	Count	Average	Count	Average	Count
Aluminum (µg/L)	379	181	36.2	97	6500	16
Antimony (µg/L)	3.6	1	3.56	1	NA	NA
Arsenic (µg/L)	0.581	2	0.567	1	NA	NA
Barium (µg/L)	21.6	17	21.2	23	NA	NA
Beryllium (µg/L)	NA	NA	NA	NA	1.13	10
Cadmium (µg/L)	2.18	184	1.58	129	5.62	16
Calcium (µg/L)	80,300	184	56,000	129	158,000	16
Chromium (µg/L)	2.09	2	1.46	36	NA	NA
Cobalt (µg/L)	5.71	18	0.996	19	21.2	3
Copper (µg/L)	12.0	177	2.49	105	126	16
Iron (µg/L)	1860	29	139	3	8760	16
Lead (µg/L)	1.39	35	0.643	44	15.1	16
Magnesium (µg/L)	5090	184	3260	129	9570	16
Manganese (µg/L)	1750	163	2020	127	4350	16
Molybdenum (µg/L)	1.06	1	1.63	15	NA	NA
Nickel (µg/L)	3.50	26	0.924	6	13.7	16
Potassium (µg/L)	943	23	624	23	1970	14
Selenium (µg/L)	NA	NA	NA	NA	3.675	2
Silver (µg/L)	NA	NA	NA	NA	NA	NA
Sodium (µg/L)	3620	30	2430	36	4340	16
Strontium (µg/L)	749	6	535	8	1610	3
Thallium (µg/L)	NA	NA	NA	NA	NA	NA
Vanadium (µg/L)	NA	NA	NA	NA	NA	NA
Zinc (µg/L)	823	185	546	129	2270	16

µg/L      micrograms per liter

mg/L      milligrams per liter

Note: Non-detects were included in the averages at the detection limit

NA        No data available